

ABSTRACT OF THE DISCLOSURE

Cetane improvers based on triglycerides and petroleum fractions are disclosed that are at least one half as effective as commercially sold cetane improvers. In each case, the cetane improvers are nitrates produced through the nitration of medium to long chain compounds containing a double bond. Applications include use with diesel and alcohol fuels intended for use in diesel engines. The nitrates have advantages due to their good performance relative to their nitrogen content. Observed properties of some products indicate they also have lubricity and/or detergency enhancing capabilities when used with diesel fuel.